

Amazing Milbeasus





Cheryl Palin

Contents

Intr	oduction	3			
1	Minibeasts	4			
2	Insect Bodies	6			
3	Insect Senses	8			
4	Communication	10			
5	Baby Minibeasts	12			
6	Working Insects	14			
7	Minibeast Homes	16			
8	Spiders	18			
9	Problems with Minibeasts	20			
10	Useful Minibeasts	22			
Act	ivities	24			
Projects					
Picture Dictionary					
About Read and Discover					





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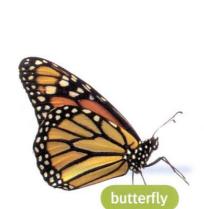
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Introduction

There are millions of different types of minibeast. They can be many different shapes and sizes. Some are very small, some are colorful, and some have lots of legs. They live in different places all over the world!





What minibeasts do you know?
How many legs does a butterfly have?
How many eyes does a spider have?
Which minibeast has a home on its back?

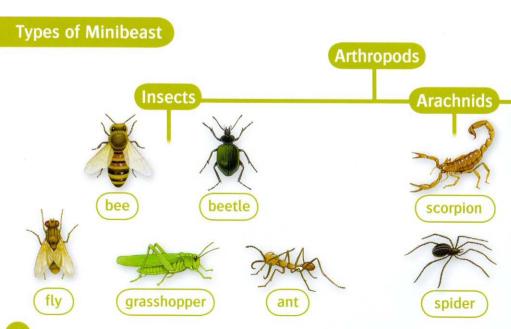




Minibeasts

A minibeast is a small animal with no backbone. It's an invertebrate. There are many different types of minibeast. Scientists put them into different groups.

The biggest group is the arthropods. Arthropods have six or more legs. Some arthropods are insects. Insects have six legs. There are more than one million types of insect. Some examples are bees, beetles, ants, flies, and grasshoppers.



Some arthropods are arachnids. Arachnids have eight legs. Scorpions and spiders are arachnids.

Some arthropods are myriapods. They have lots of legs. Centipedes and millipedes are myriapods. Centipedes have two legs on each body section. Millipedes have four legs on each body section.

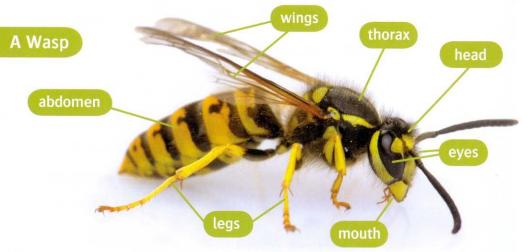
Some minibeasts don't have legs. Snails and slugs don't have legs. They are mollusks. Earthworms and leeches don't have legs. Their bodies have lots of sections. They are annelids. Which minibeasts do you know?





Insect Bodies

Most insect bodies have three parts: a head, a thorax, and an abdomen. The head has eyes and a mouth. The thorax has legs and wings.



Insects don't have any bones, but they have a hard cover. This hard cover is called an exoskeleton. Insects grow, but their exoskeleton can't grow. When an exoskeleton is too small, it comes off. Then the insect grows a new, bigger exoskeleton.



Insects can use their bodies to hide from birds and other animals. They don't want the other animals to eat them. This is called camouflage.

A Camouflaged Leaf Insect Some insects have bright colors. Animals don't eat any insect that is black, white, and red. It isn't usually good to eat. Sometimes it's poisonous.



Insect Senses

Most insects have two very big eyes. They can't see clearly, but they can see things move very well. Some insects have extra eyes that can only see light and dark.



Some minibeasts have antennae on their head. They use their antennae to feel and touch things. They can also smell food and other minibeasts with their antennae.

Butterflies have a very long tongue called a proboscis. They use their tongue to taste and drink nectar in flowers. Butterflies can also taste with their feet!



Most insects don't have ears on their head. Do you know where they are? They have ears on their body or their legs!





Communication

Most male and female minibeasts communicate with each other because they need to make new, baby minibeasts!

Some minibeasts communicate with sound. Grasshoppers can sing. They move their legs up and down to make a singing sound.

Some minibeasts communicate with smell. The female moth makes strong smells called pheromones. The male moth can smell the female with its antennae.





Some minibeasts communicate with light. Fireflies can make light with their abdomen. Male and female fireflies flash their lights to each other.

Some minibeasts communicate to give each other information. Bees dance to tell other bees where there is food. Ants touch each other's antennae or head to give information about food or danger.

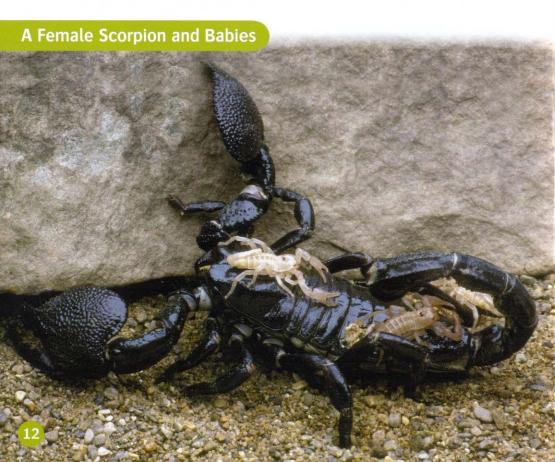




Baby Minibeasts

Most baby minibeasts come from eggs. Some minibeasts, like slugs and earthworms, lay their eggs in soil. Other minibeasts, like butterflies and beetles, lay their eggs on plants.

Scorpions don't lay eggs. They have live babies. The baby scorpions travel on their mother's back.

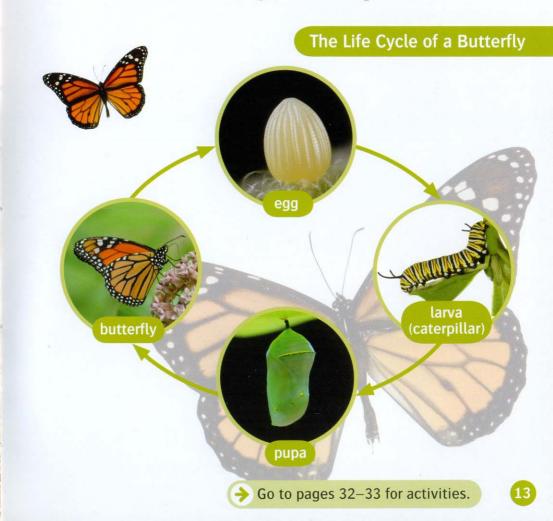




The babies of some flying insects look like their parents, but they don't have any wings. Baby grasshoppers don't have any wings. They grow wings when they get bigger.



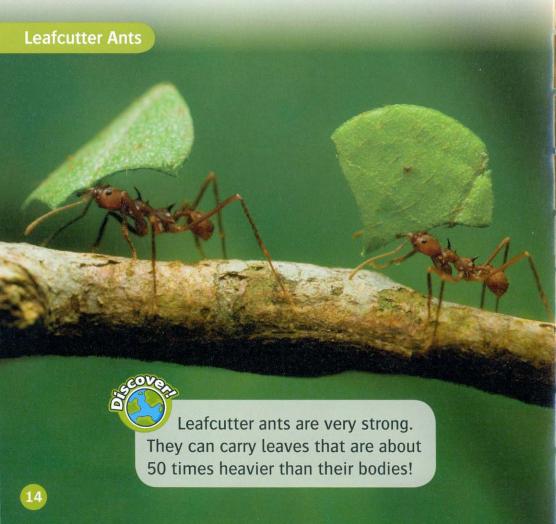
Some babies are larvae. Beetle, butterfly, and bee babies are larvae. After a few weeks, they become pupae. Then they become insects with wings, like their parents.





Working Insects

Some insects work together in groups. Leafcutter ants work together. First they find leaves. They carry the leaves to their nest. Fungus grows from the leaves, and then the ants eat the fungus.





Honeybees work together, too. One queen bee lays all the eggs. Then the female worker bees care for the bee larvae. They look for food, they make honey from nectar, and they give honey to the bee larvae. They keep the honey in honeycombs inside the hive. The worker bees also clean the hive.



Minibeast Homes



A Snail

Some minibeasts, like earthworms and ants, live underground, and others live in water. Dragonflies lay their eggs on leaves in the water. Their larvae live underwater.

Snails carry their home on their back.

They live in many different places.

Land snails live in deserts,

mountains, forests, and gardens.

Marine snails live in the ocean.

Lots of minibeasts make nests. Some wasps make nests from wasp paper. They make the paper from wood and saliva. The queen wasp lays eggs in the nest. The nest has lots of small rooms for the wasp larvae. Wasps attack other animals to protect their nest.





Spiders have two body parts and eight legs. They have six or eight eyes.

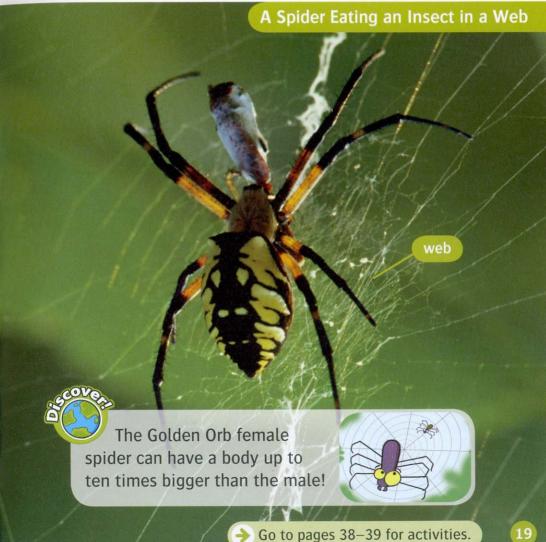
All spiders can make silk. Some spiders use the silk to make webs. Insects fly into the web. Then the spider eats the insects.

Some spiders hunt. The wolf spider hides in leaves. Then it jumps out and catches insects, mice, and frogs.



A spider can only eat liquid food. It bites an animal with a poison that makes the animal liquid inside. Then the spider drinks the liquid.

Female spiders are often much bigger than male spiders.



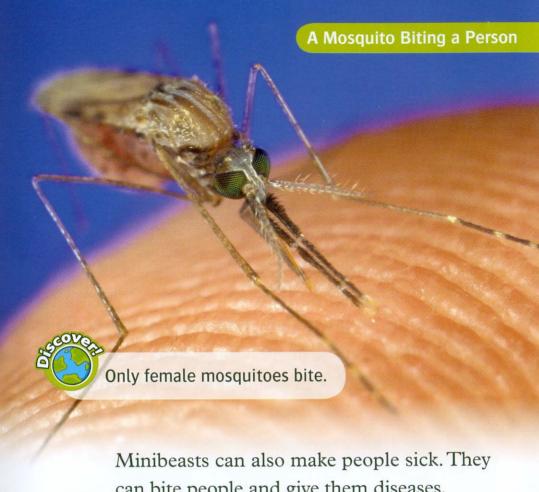


Problems with Minibeasts

Some minibeasts can sting. The part that can sting is called a stinger. A wasp and an ant can sting again and again. A bee can only sting once. Then it dies.



Other minibeasts can bite. Some spiders have a poisonous bite, and other animals can die from this poison. A person can die from the bite of a black widow spider.



Minibeasts can also make people sick. They can bite people and give them diseases.

Mosquitoes can give people a very bad disease called malaria.

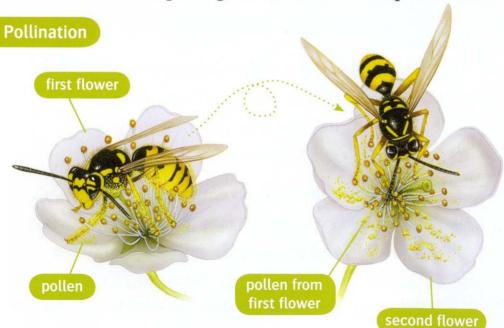
Some minibeasts make problems for farmers. Locusts are a type of grasshopper. They eat a lot of food crops. Other minibeasts make problems in our homes. Some moths eat clothes, and some beetles eat wood.



Useful Minibeasts

Minibeasts are important food for many other animals. Fish, frogs, bats, and birds eat minibeasts.

Insects help plants grow. Insects visit different flowers to collect food. The pollen from one flower sticks to the body of the insect. When the insect goes to another flower, the pollen falls onto this flower. The flower uses this pollen to make seeds. Then a new plant grows. This is called pollination.



Earthworms help soil and plants. When they move through the soil, they let air and water in. Plant roots need the air and water.



Bees give us honey and silkworms give us silk. Silkworms make silk cocoons when they become pupae. People use silkworm cocoons to make silk fabric.



Minibeasts are amazing. They are also very useful! People, animals, and plants all need minibeasts to live.

1 Minibeasts

← Read pages 4–5.

1 Complete the chart.

leech grasshopper millipede fly centipede snail bee ant spider slug earthworm beetle scorpion



2 Match. Then write the words.

- 1 It has six legs. It has wings. It's black and yellow. It's an insect.
- 2 It has eight legs. It has a tail. It's an arachnid.
- 3 It doesn't have legs. It has a shell. It's a mollusc.
- 4 It doesn't have legs.
 It doesn't have a shell.
 It's an annelid.









3 Draw and write about two minibeasts.

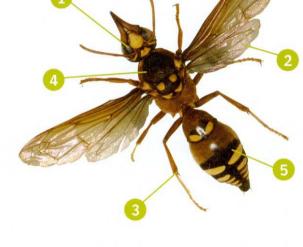
This is a	
It has	
It has	
It's	
lt's	

2 Insect Bodies

← Read pages 6–7.

Write the words.

head thorax abdomen leg wing



- 1 <u>head</u>
 2 ____
- 1
- 5 _____

2 Complete the sentences.

Insects don't have any bones. They have a hard called an exoskeleton. Insects ______, but their exoskeletons can't grow. When an exoskeleton is too ______, it comes off. Then the insect grows a ______, bigger exoskeleton.

3 Circle the correct wor	rds.
--------------------------	------

- 1 Insects can / can't use their body to hide.
- 2 Insects want / don't want other animals to eat them.
- 3 Some / All insect bodies are camouflaged.
- 4 An insect that is black, white, and red is / isn't good to eat.
- 5 Insects are sometimes / never poisonous.
- 6 An exoskeleton can / can't grow.

4 Answer the questions.

- 1 What color are insects that are not good to eat?

 They are black, white, and red.
- 2 How many parts do most insects have?
- 3 What are the names of the insect parts?
- 4 What happens when an exoskeleton is too small?
- 5 How do insects hide from other animals?

3 Insect Senses

← Read pages 8–9.

1 Write true or false.

1	All insects have only two eyes.	false
2	Some insects have more than two eyes.	
3	Insects can see very clearly.	
4	Insects can see things move.	
5	All insects see light and dark.	
6	Most insects have ears on their head	

Write the sentences.

These are antennae.
These eyes can see things move.
These eyes can see light and dark.



2	touch with their antennae.
3	touch with their hands.
4	taste with their feet.
5	hear with their legs.
6	see with their eyes.
4 Draw and	write about two insects.
	This is a
	It has
2 2 5 5	It can
	It can
	a didig male or iomalk.
Caller Mis	lara prisma estadad matricita de la Colonia
aris Harma	at a comparate the comparate comparate com
Little in	lides malering, an place (Long.)
dum	

3 Write People, Insects, or People and insects.

1 ______ smell with their antennae.

4 Communication

← Read pages 10–11.

1	Find	and	write	the	minibeasts.	Then	draw	them.
	1 1110	MIIM	AAIICC		minibodusts.		CICAA	CIICIII

		S	0	S	t	m	0	t	h	S	a	n	f
		i	r	е	i	0	S	h	b	а	r	i	i
		t	i	a	n	t	S	n	е	g	е	b	r
1	moths	е	f	d	S	j	е	е	е	u	m	е	е
		n	r	a	p	р	l	S	S	r	a	g	f
		t	0	d	a	S	h	i	р	е	r	b	l
		i	h	е	S	b	٧	0	i	r	u	l	i
2		r	İ	m	m	l	0	r	Z	a	Z	0	е
2	1	g	r	a	S	S	h	0	р	р	е	r	S
_													

2 Write male or female.

The moth makes strong smells called					
pheromones. The moth can smell the					
m	oth with its ar	ntennae. The			
emperor mot	h can smell a	moth			
10 kilometer	s away!				

_					
3	Find	and	write	the	words.

ontouchch	d	281
· ontodonen	dan _{Cetsmelllchsoundan}	lightononsin
	ersmelllchsouhuan	mg

- 1 <u>touch</u> 2 ____ 3 ____
- 4 _____ 5 ____ 6 ____

4 Complete the sentences.

	Bees	Ants	Grasshoppers	Moths	Fireflies
1			commun	icate wit	h smell.
2			commun	icate wit	h light.
3			commun	icate wit	h dance.
4	_		commun	icate wit	h sound.
5	4		commun	icate wit	h touch.

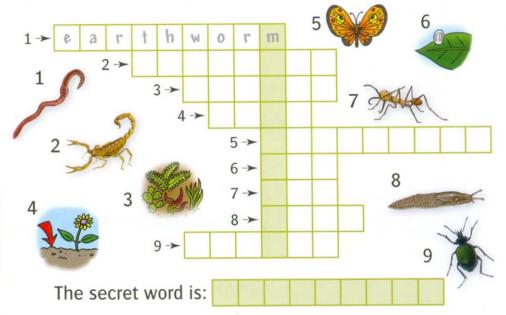
- 5 Answer the questions.
 - 1 How do grasshoppers communicate?
 - 2 How do fireflies communicate?
 - 3 How do bees communicate?

6

Baby Minibeasts

← Read pages 12–13.

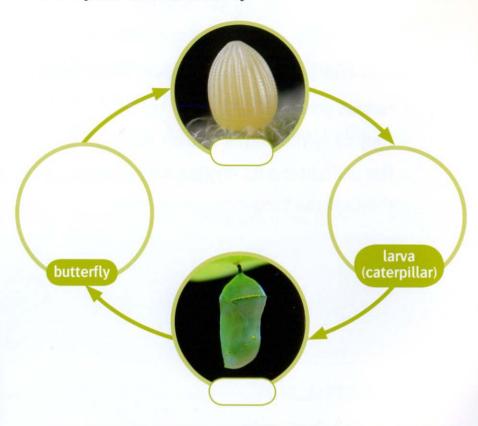
1 Complete the puzzle. Write the secret word.



2 Write V or X

- 1 Most minibeasts lay eggs. ✓ have live babies. ✗
- 2 Slugs and earthworms lay eggs in soil. on plants.
- 3 Butterflies and beetles lay eggs in soil. on plants.
- 4 Scorpions lay eggs. have live babies.

3 Complete the diagram. Then write about the life cycle of a butterfly.



caterpillar pupa butterfly wings eggs pupa butterfly caterpillar insect

Α	lays		Α	
comes out of	an egg. The		grows and it	
becomes a _		. Then a		
comes out of the		Nov	Now it's an	
	with			

6 Working Insects

← Read pages 14–15.

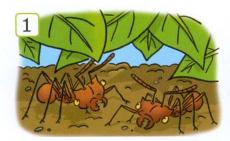
Number the sentences in order. Then write.

Fungus grows.

They carry the leaves to their nest.

The leafcutter ants find leaves.

They eat the fungus.





The leafcutter ants find leaves.





	, 55			
2	The workers are male.			
3	The workers care for the bee larvae.			
4	Bees make honey from nectar.			
5	Bees keep th	Bees keep the honey in honeycombs.		
3 Co	3 Complete the chart.			
They live in a hive. They are insects. They carry leaves. They keep honey in honeycombs. They make honey. They eat fungus. They find leaves. They work together in groups.				
Leaf	fcutter ants			
Н	oneybees			
	fcutter ants honeybees			

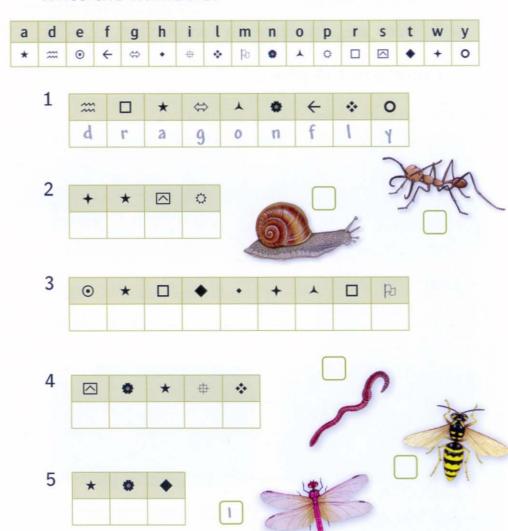
2 Write true or false.

1 Two gueen bees lay the eggs.

7

Minibeast Homes

- ← Read pages 16–17.
- Use the code to write the minibeasts. Then write the numbers.



2	Write the words.		
	snail dragonfly ant wasp		
	1 It's an insect that lives underground		
	2 Its larvae live underwater.		
	3 It carries its home on its back.		
	4 It makes fantastic nests.		
3	Complete the sentences.		
	paper nests queen larvae saliva		
	1 Lots of minibeasts make		
	2 Some wasps make nests from		
	Wasps make the paper from wood and		
	4 The wasp lays eggs in the nest.		
	The wasp nest has lots of small rooms for the		
	wasp		
4	Answer the questions.		
	1 Which minibeasts live underground?		
	Where do dragonflies lay their eggs?		
	3 Where do wasps live?		

8 Spiders

← Read pages 18–19.

spider web leaves

1 Write the words.

poison mice liquid







1 _____ 2







4 _____

5 _____

6

Write the words in order. Then write true or false.

1 spiders / silk. / All / make / can
All spiders can make silk.

2 webs. / spiders / make / All

3 hunt. / spiders / All

4 spider / makes / a / The / web. / wolf

5 wolf / mice. / The / eats / spider

3 Complete the chart.

	Spiders	Insects
How many body parts?		
How many legs?		
How many eyes?		Some have two eyes and some also have extra eyes.
What food do they eat?		
What can they make?		

4 Draw and write about spiders.

Spiders have
They can
They dan

9 Problems with Minibeasts

← Read pages 20-21.

1 Write the words.

ant mosquito locust beetle moth







1 _____

2 _____

3 _____





4 _____ 5 ____

2 Circle the correct words.

- 1 A wasp can sting again and again / only once.
- 2 All / Some spiders have a poisonous bite.
- 3 A person can / can't die from the bite of a black widow spider.
- 4 Spiders / Mosquitoes give people malaria.
- 5 Male / Female mosquitoes bite.
- 6 Locusts eat food crops / clothes.

	It doesn't eat food crops.	bee	beetle			
	It doesn't eat clothes.	spider	loeust			
	It doesn't eat furniture. It doesn't have eight legs.	mosquito	moth			
	It doesn't sting and then die.					
	It's a					
4	Write about minibeasts that you like and don't like.					
	I like because					
	Watch, Then write the suntences -					
	I like because					
	I don't like because					
		6.1767.3	A I			
	I don't like k	ecause				

3 Find and write the minibeast.

Useful Minibeasts

- Read pages 22–23.
- Write the minibeasts and other animals.

arof

tab

shif

1 <u>frog</u> 2 ____

kormwils

t_herworam

ehe

5

Match. Then write the sentences.

Fish, frogs, and bats-

Silkworms

Earthworms

Bees

Insects

let air and water into soil.

eat minibeasts.

give us honey.

give us silk.

move pollen from flower to flower.

1 Fish, frogs, and bats eat minibeasts.

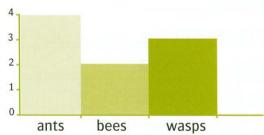
3	Write about minibeasts.				
		Problems with minibeasts:			
		hey can sting.			
	<u></u>				
	_				
		ood things about minibeasts:			
	E	Bees give us honey.			
	-				
	_				
	_				
4	Ca	an you remember? Which minibeast is it?			
	1	It tastes with its feet			
	2	They communicate with light			
	3	It carries its home			
	4	It makes nests with wood and saliva.			
	5	It eats fungus			
	6	Its larvae live underwater			
	7	It carries its baby on its back			
	8	It has four legs on each section			
	9	It can only eat liquids			
	10	It can give people malaria.			

Counting Minibeasts

Draw and write the minibeasts that you see in five days.

Days	Minibeasts
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

2 Count the minibeasts. Draw a graph.



3 Display your graph.

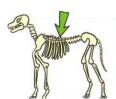


Write the minibeasts that you can see in your country.

Minibeasts Minibeasts in the House in the Park **Minibeasts** in Water

- 2 Draw © next to the minibeasts that you like.
- 3 Write about the minibeasts that you like.
- 4 Display your work.

Picture Dictionary



backbone



bite



bone



clothes



crops



dark



desert



die



female



food



forest



fungus



grow



hide



honey



leaves



liquid



male



mice



mountain



move up and down



nectar



ocean



parents



plants



poison



roots



saliva



scientist



seeds



silk



smell



soil



sound



sting



taste



tongue



touch



underground



wood

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1,050 headwords	Cells and MicrobesClothes Then and NowIncredible EnergyYour Amazing Body	 All About Space Caring for Our Planet Earth Then and Now Wonderful Ecosystems 	Helping Around the World Food Around the World

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Amazing Minibeasts

Cheryl Palin

Read and discover all about amazing minibeasts ...

- · How many legs does a spider have?
- · What is an exoskeleton?

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Level 4
750 headwords



Level 5 900 headwords



Level 6 1,050 headwords

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